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ABSTRACT OF THE DISCLOSURE

A transmission brake (1) is described, where one transmission shaft (3) can be braked to carry out an upshift operation. The aim of the invention is to provide a transmission brake that is devoid of any hydraulic or pneumatic actuation device and that requires very little axial installation space. Such a transmission brake (1) has one electromagnetic actuation device (6, 7, 8) with which the friction elements (4, 5) of the transmission brake (1) can be pressed against each other for actuating the brake.